

Date: Wed, 20 Jan 93 03:38:07 PST
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #81
To: Info-Hams

Info-Hams Digest Wed, 20 Jan 93 Volume 93 : Issue 81

Today's Topics:

 CW practice software (2 msgs)
 Daily Solar Geophysical Data Broadcast for 15 January
 Daily Solar Geophysical Data Broadcast for 19 January
 DJ580T DSM question
 Monthly Review of Solar & Geophysical Activity for December 1992
 Radio Shack Business Band Radio

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 20 Jan 1993 04:51:22 GMT
From: panix!oppedahl@nyu.arpa
Subject: CW practice software
To: info-hams@ucsd.edu

In <9301191434.AA17045@deepthought.cs.utexas.edu> badbunny@tfsp.saic.com (Brendan Hoar) writes:

>I'm in the market for some CW practice software. I've passed my No-code
>technician's license, but since I'm sort of twidling my thumbs here waiting
>for it, I'd like to spend some time practicing for General.

>I've got a PC clone that is available to me off hours, and I'm willing to
>spend money, so commercial software is fine. Of course, if there is free/
>shareware that is better, let me know!

I used Super Morse. It's quite good. Got my 30 wpm with it.

--

Carl Oppedahl AA2KW (intellectual property lawyer)
30 Rockefeller Plaza
New York, NY 10112-0228
voice 212-408-2578 fax 212-765-2519

Date: 19 Jan 93 20:46:47 CST
From: dog.ee.lbl.gov!overload.lbl.gov!agate!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!zaphod.mps.ohio-state.edu!moe.ksu.ksu.edu!engr.uark.edu!mbox.ualr.edu!eivax.ualr.edu!mauldin@network
Subject: CW practice software
To: info-hams@ucsd.edu

In article <1993Jan19.153108.17924@hemlock.cray.com>, dadams@cray.com (David Adams) writes:
> In article b@rpi.edu, maessm@jec308.its.rpi.edu (Mathieu J. Maessen) writes:
>
>
> |Look for a program called Supermorse. It is shareware, and is available, among
> |other places, from the SIMTEL ftp site (SIMTEL20.army.mil).
> |
>
> I get no connection when I try to ftp to SIMTEL20.army.mil. Can anyone name
> any other sites?
>

Try WSMR-SIMTEL20.army.mil or oak.oakland.edu, a SIMTEL mirror site.
SM316.zip is the file you want, and it's in PD1:[MSDOS.HAMRADIO] on Simtel.

"WSMR" stands for White Sands Missile Range. I forget what "SIMTEL" means.

Regards,

Doug, K5DH

[.sig line intentionally left blank.]

Date: 20 Jan 93 09:39:00 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 15 January
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 019, 01/19/93
10.7 FLUX=116.4 90-AVG=141 SSN=091 BKI=3323 3334 BAI=015
BGND-XRAY=B2.1 FLU1=1.1E+06 FLU10=1.0E+04 PKI=3323 3343 PAI=014
BOU-DEV=029,033,015,036,027,039,039,046 DEV-AVG=033 NT SWF=00:000
XRAY-MAX= B3.3 @ 0417UT XRAY-MIN= B1.9 @ 2233UT XRAY-AVG= B2.3
NEUTN-MAX= +004% @ 0205UT NEUTN-MIN= -003% @ 2050UT NEUTN-AVG= +0.1%
PCA-MAX= +0.1DB @ 2300UT PCA-MIN= -0.4DB @ 0900UT PCA-AVG= -0.0DB
BOUTF-MAX=55422NT @ 1025UT BOUTF-MIN=55378NT @ 1924UT BOUTF-AVG=55409NT
GOES7-MAX=P:+176NT@ 1904UT GOES7-MIN=E:-012NT@ 2053UT G7-AVG=+085,+021,+011
GOES6-MAX=P:+195NT@ 1902UT GOES6-MIN=E:-025NT@ 1859UT G6-AVG=+103,-001,+034
FLUXFCST=STD:110,105,105;SESC:110,105,105 BAI/PAI-FCST=015,015,010/018,015,010
KFCST=4333 3334 4333 3324 27DAY-AP=007,008 27DAY-KP=1123 3221 2333 2221
WARNINGS=
ALERTS=
!!END-DATA!!

Date: 20 Jan 93 08:16:51 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 19 January
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 019, 01/19/93
10.7 FLUX=116.4 90-AVG=141 SSN=091 BKI=3323 3334 BAI=015
BGND-XRAY=B2.1 FLU1=1.1E+06 FLU10=1.0E+04 PKI=3323 3343 PAI=014
BOU-DEV=029,033,015,036,027,039,039,046 DEV-AVG=033 NT SWF=00:000
XRAY-MAX= B3.3 @ 0417UT XRAY-MIN= B1.9 @ 2233UT XRAY-AVG= B2.3
NEUTN-MAX= +004% @ 0205UT NEUTN-MIN= -003% @ 2050UT NEUTN-AVG= +0.1%
PCA-MAX= +0.1DB @ 2300UT PCA-MIN= -0.4DB @ 0900UT PCA-AVG= -0.0DB
BOUTF-MAX=55422NT @ 1025UT BOUTF-MIN=55378NT @ 1924UT BOUTF-AVG=55409NT
GOES7-MAX=P:+176NT@ 1904UT GOES7-MIN=E:-012NT@ 2053UT G7-AVG=+085,+021,+011
GOES6-MAX=P:+195NT@ 1902UT GOES6-MIN=E:-025NT@ 1859UT G6-AVG=+103,-001,+034
FLUXFCST=STD:110,105,105;SESC:110,105,105 BAI/PAI-FCST=015,015,010/018,015,010
KFCST=4333 3334 4333 3324 27DAY-AP=007,008 27DAY-KP=1123 3221 2333 2221
WARNINGS=
ALERTS=
!!END-DATA!!

Date: Wed, 20 Jan 1993 07:07:08 GMT
From: usc!howland.reston.ans.net!spool.mu.edu!tulane!ukma!miles@network.UCSD.EDU
Subject: DJ580T DSM question
To: info-hams@ucsd.edu

erik@peewee.nwc.navy.mil (Erik van Bronkhorst) Code 3814

Phone 939-1421) writes:

>I recently purchased a 580 and I am very happy with it.
>I would like to know if it is possible to use the digital signal
>message receive capability to display touch tones transmitted
>by another station. That is, without the other station sending
>any specific DSQ (or even any at all). The idea is to have a
>crude pager message capability like the new kenwood (which is not crude).
>Thanks!
>Erik van Bronkhorst KC6UUT DoD#4342585443 AMA#[classified]

All you need to do is make a pre-arranged code. And share the code with those you would communicate with.

example:

a1 = arrived at destination
a2 = call home
*5 = can't talk now
nn = whatever...

etc etc etc....

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Date: 20 Jan 93 10:03:08 GMT
From: news-mail-gateway@ucsd.edu
Subject: Monthly Review of Solar & Geophysical Activity for December 1992
To: info-hams@ucsd.edu

-- MONTHLY REVIEW OF SOLAR AND GEOPHYSICAL ACTIVITY --

Summary for December 1992
Special DRAO Summary of 10.7 cm Flux Data for 1992

Report compiled by the
Solar Terrestrial Dispatch

Data Provided In-Part Courtesy of the
Space Environment Services Center, NOAA
and the
NRC / Dominion Radio Astrophysical Observatory
Penticton, British Columbia, Canada

MONTHLY ACTIVITY SUMMARY FOR DECEMBER 1992

We are now in month 76 of solar cycle 22. The number of energetic events in December decreased slightly over the number of events observed in November. There were 284 flares (optical and x-ray) observed during the month. This is down by approximately 15 percent over November's figure of 334 events. There were 4 minor M-class flares in December and no major flares. This compares with 7 minor M-class flares and one major X9.0 flare in early November (at 0308Z on 02 November from departed Region 7321). The last two months have shown a fairly sharp drop in the number of energetic events. October had 419 optical and x-ray flares (one of which was major, and 24 of which were minor M-class events). This is a drop of over 32 percent over the number of events counted in December.

Sunspot numbers have remained fairly stable over the last two months. The monthly sunspot number observed by the SESC for December was computed at 127.4. The value for November of 124.3 compares closely. RI international sunspot numbers for November and December were estimated at 92.0 and 83.3 respectively. The average 10.7 cm solar radio flux for the month of December was computed to be 139.1. This is down slightly from November's elevated value of 145.2, but is still higher than the average solar flux values computed for the months of May through October.

The largest flare of December was a rather unimpressive class M2.6/SN event at 02:22 UT from Region 7376 (located at N17W80). No significant radio emissions accompanied this event. All of the solar flares observed in December never exceeded a 1B optical rating. Those which did attain a 1B rating were smaller C-class events. The M1.5/1N flare at 18:03 UT on 01 December from Region 7352 (at N21W37) was the only other event to come close. All of the flares observed this month were radio-weak. A C2.5/1B flare from Region 7376 (N14W40) at 06:51 UT on 28 December was the only event to be accompanied by both Type II and IV sweeps.

The list of minor M-class or greater flares and associated radio emissions observed during December follows:

SUMMARY OF MAJOR ENERGETIC EVENTS

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
------	-------	-----	-----	------	----	--------	------	----------	----------	----------

NO MAJOR ENERGETIC EVENTS OBSERVED.

SUMMARY OF MINOR M-CLASS EVENTS

Date	Begin	Max	End	Xray	Op	Region	Locn	2695 MHz	8800 MHz	15.4 GHz
01 Dec:	1746	1803	1818	M1.5	1N	7352	N21W37			33

04 Dec:	1135	1140	1147	M1.4	SF	7352	N19W71		
	1730	1749	1809	M2.1	SF	7352	N19W67	160	130
31 Dec:	0211	0222	0241	M2.6	SN	7376	N17W80		

The geomagnetic field was slightly less active in December than November. The estimated planetary A-index for December was 11, compared with 13 in November. Sudden magnetic impulses of 20 nT at 20:00 UT, 19 nT at 06:15 UT, and 16 nT at 20:11 UT were observed at Boulder on 09, 17, and 27 December respectively. The GOES-6 spacecraft experienced a brief magnetopause crossing between 17:45 UT and 17:46 UT on 17 December. This was associated with a simultaneous period of minor geomagnetic storm activity at ground levels.

The most disturbed day was 29 December. A disturbance which elevated levels of geomagnetic activity on 28 December matured into a minor geomagnetic storm at middle latitudes on 29 December. Periods of minor and major storming persisted through to approximately 18:00 UT before subsiding. High latitudes reported a few periods of severe storm activity. The total duration of this gradually-commenced storm was approximately 30 hours, lasting from approximately 12:00 UT on 28 December to 18:00 UT on 29 December. The source of this disturbance appears to have been a filament that disappeared between S20 and S35 near mid-disk that measured approximately 24 degrees in extent. It disappeared early in the UT day of 22 December.

RECENT SOLAR INDICES (PRELIMINARY) OF THE OBSERVED MONTHLY MEAN VALUES
Last Updated January 15, 1993

	Sunspot Numbers					Radio Flux		Geomagnetic	
	Observed		Ratio	Smooth	Values	Penticton	Smooth	Smooth	
	SESC	RI	RI/SESC	SESC	RI	10.7 cm	Value	Ap	Value
	-----					-----		-----	
	YEAR = 1989								
Jan:	203.2	161.6	.80	189.2	141.9	235.4	190.2	19	16.7
Feb:	211.0	164.5	.78	196.0	144.7	222.4	194.0	15	17.0
Mar:	176.8	131.0	.74	204.1	149.4	205.1	199.7	41	17.6
Apr:	172.3	129.3	.75	209.9	153.1	189.6	204.4	23	18.2
May:	207.0	138.4	.67	216.4	156.5	190.1	209.3	16	18.8
Jun:	297.3	196.0	.66	220.1	157.9	239.6	213.1	17	19.2
Jul:	193.9	126.8	.65	221.1	158.1	181.9	212.6	8	19.1
Aug:	243.0	166.8	.69	221.5	157.4	217.1	209.7	20	19.3
Sep:	240.7	176.8	.74	221.3	156.3	225.9	207.2	17	18.8
Oct:	217.4	158.5	.73	223.2	157.1	208.7	206.3	21	18.3

Nov:	255.0	173.0	.68	223.4	157.3	235.1	206.1	19	18.4
Dec:	217.8	166.1	.76	217.3	153.3	213.0	203.3	16	18.4

YEAR = 1990

Jan:	239.3	177.3	.74	212.4	150.6	210.1	200.4	14	18.6
Feb:	184.7	130.5	.71	213.9	152.9	178.3	200.5	23	18.8
Mar:	198.6	140.3	.71	212.7	152.0	188.8	198.7	23	18.6

Apr:	196.1	140.3	.72	210.5	149.3	185.3	195.6	27	18.3
May:	187.7	132.2	.70	208.1	147.0	189.7	192.4	16	17.6
Jun:	168.9	105.4	.62	205.3	143.8	170.9	189.9	16	16.8

Jul:	204.3	149.4	.73	203.8	140.6	180.7	190.4	14	16.2
Aug:	269.4	200.3	.74	206.3	140.5	222.6	193.9	19	15.4
Sep:	186.4	125.2	.67	211.1	142.1	177.4	198.3	14	15.0

Oct:	219.0	145.5	.66	213.1	142.1	182.0	200.6	15	14.8
Nov:	196.1	131.4	.67	213.7	141.7	184.3	201.2	9	14.4
Dec:	208.0	129.7	.62	216.1	143.9	204.9	202.7	7	15.7

YEAR = 1991

Jan:	213.5	136.9	.64	220.5	147.6	229.4	205.5	8	17.4
Feb:	270.2	167.5	.62	221.5	147.6	243.0	206.3	10	18.4
Mar:	227.9	141.9	.62	220.7	146.6	230.0	205.9	27	19.1

Apr:	215.9	140.0	.65	220.7	146.5	198.8	206.8	17	20.0
May:	182.5	121.3	.66	219.6	145.5	190.3	207.1	18	21.7
Jun:	231.8	169.7	.73	218.9	145.2	206.8	207.4	44	23.0

Jul:	245.7	173.7	.71	219.5	146.3	212.0	207.7	27	23.6
Aug:	251.5	176.3	.70	218.3	146.5	210.3	206.8	30	24.7
Sep:	185.8	125.3	.67	214.2	144.7	180.6	203.9	20	25.0

Oct:	220.1	144.1	.65	208.4	141.6	201.3	199.7	31	24.3
Nov:	169.0	108.2	.64	202.2	137.9	172.0	195.4	33	24.1
Dec:	217.7	144.4	.66	193.7	131.6	223.9	188.9	15	23.0

YEAR = 1992

Jan:	217.9	149.3	.69	183.3	123.6	217.6	181.8	14	21.1
Feb:	238.2	159.6	.67	171.8	115.2	232.1	174.8	31	19.8
Mar:	160.5	106.9	.67	161.6	108.0	171.3	168.5	14	19.4

Apr:	144.0	99.8	.69	154.3	103.1	158.5	162.9	11	18.9
May:	106.3	73.8	.69	148.9	100.1	125.4	158.8	21	17.4*
Jun:	104.7	65.2	.62	143.3	96.9*	116.7	154.2*	15	16.4*

Jul:	121.4	85.7	.71			132.3		10	
Aug:	99.5	64.5	.65			122.1		15	

Sep:	93.8	62.9	.68	116.8	25
Oct:	136.2	88.3	.65	130.8	15
Nov:	124.3	92.0	.74	145.2	13*
Dec:	127.4	83.3*	.65*	139.1	11*

* = Preliminary estimates, Unmarked = Final Values.

The lowest smoothed sunspot number for Cycle 21, RI = 12.3, occurred in September 1986. The sunspot maximum for this cycle (cycle 22) occurred in July 1989, with a peak smoothed sunspot number (RI) of 158.1.

Note: Prior to June 1991, the 10.7 cm solar radio flux measurements originated from the Algonquin Radio Observatory near Ottawa. From June 1991 onward, the flux has been (and will continue to be) measured from the Dominion Radio Astrophysical Observatory at Penticton, British Columbia, Canada.

DAILY VALUES OF SOLAR FLUX AT 2800 MHz (PENTICTON-DRAO) AT 2000 UT

Data Valid for December 1992

Data Courtesy of the National Research Council of Canada
Herzberg Institute of Astrophysics
Dominion Radio Astrophysical Observatory
Penticton, British Columbia
CANADA

Series D is the best estimate of absolute value and is obtained by using the multiplier 0.90 recommended by Commission V of URSI.

1992	Observed	Adj to 1 AU	
	Series C	Series C	Series D
1	131.4	127.1	114.4
2	130.3	126.0	113.4
3	125.5	121.3	109.2
4	119.8	115.9	104.3
5	116.3	112.4	101.2
6	119.8	115.9	104.3
7	120.1	116.1	104.5
8	129.0	124.8	112.3
9	134.0	129.6	116.6
10	142.2	137.5	123.8

11	164.4	159.0	143.1
12	168.6	163.1	146.8
13	173.3	167.6	150.8
14	167.2	161.8	145.6
15	155.5	150.4	135.4
16	150.7	145.8	131.2
17	150.3	145.5	130.9
18	149.8	144.9	130.4
19	147.0	142.2	128.0
20	147.9	143.2	128.9
21	145.4	140.8	126.7
22	142.1	137.6	123.8
23	143.8	139.3	125.4
24	136.3	132.0	118.8
25	136.2	132.0	118.8
26	131.3	127.2	114.5
27	125.0	121.2	109.1
28	127.2	123.4	111.1
29	125.1	121.3	109.2
30	125.7	121.9	109.7
31	129.7	125.8	113.2
Mean:	139.1	134.6	121.1

OUTSTANDING EVENTS - SOLAR RADIATION AT 2800 MHZ

DATE	KEY	CLASS	START U.T.	MAXIMUM U.T.	DURATION	PEAK FLUX	MEAN FLUX
December			HOURS	HOURS	MINUTES		
01	1 S	Simple I	1756.5	1756.9	2.2	7.4	4
14	3 S	Simple II	2050.5	2053.9	10.2	9.6	3
22	3 S	Simple II	1650.3	1651.4	5.1	14.4	7
31	20 GRF	Simple III GRF	1921.9	1938.9	44	14	10

YEAR-END 10.7 CM SOLAR RADIO FLUX STATISTICS FOR 1992

PENTICTON
PENTICTON
2800 MHZ

2000 UT

1992 Observed

SERIES C 2800 MHZ

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
=====												
1	248.5	283.8	200.4	186.1	130.9	98.6	129.8	110.3	99.8	117.9	147.1	131.4
2	260.2	288.3	181.4	161.2	135.8	102.1	136.6	124.5	104.5	119.4	141.0	130.3
3	279.6	270.9	163.0	159.7	125.7	106.9	136.5	131.3	107.0	120.1	135.1	125.5
4	274.7	251.5	159.7	153.9	134.7	108.3	136.7	130.9	104.7	126.1	142.8	119.8
5	266.5	246.3	154.8	154.4	133.0	115.0	145.7	130.5	119.3	130.2	136.0	116.3
6	254.1	238.6	155.5	142.7	130.6	119.6	150.4	138.0	139.2	137.4	132.9	119.8
7	262.4	240.6	159.6	141.5	129.1	115.7	154.7	141.5	131.7	136.1	134.9	120.1
8	261.7	225.0	182.0	151.2	142.6	115.2	151.5	143.5	128.9	125.6	132.2	129.0
9	257.3	235.6	171.7	139.7	126.7	118.6	159.6	137.3	116.9	121.3	132.4	134.0
10	232.8	240.8	169.3	140.6	124.4	125.4	170.0	132.7	116.9	112.5	136.4	142.2
11	209.3	224.2	165.2	143.3	126.3	129.0	168.3	130.4	118.6	110.5	134.8	164.4
12	188.6	210.3	163.7	143.9	125.1	126.7	172.0	128.3	117.3	107.0	127.4	168.6
13	183.3	198.0	165.2	146.3	125.6	123.6	175.6	128.9	127.3	108.7	124.9	173.3
14	178.6	203.7	164.7	154.1	126.5	123.3	175.5	128.7	121.7	105.5	126.1	167.2
15	173.3	202.8	169.0	149.3	122.1	120.8	167.8	130.5	120.2	98.4	126.9	155.5
16	161.3	200.0	161.3	157.7	115.9	119.1	157.6	136.6	126.6	100.6	136.7	150.7
17	155.6	206.5	159.1	184.1	112.9	130.1	135.9	133.8	119.4	106.6	152.3	150.3
18	151.9	206.4	160.4	203.0	117.4	116.0	126.1	129.6	117.5	112.3	161.9	149.8
19	160.1	195.7	167.4	205.7	131.4	115.3	118.5	134.8	112.5	124.5	160.9	147.0
20	168.3	203.5	168.5	204.5	137.0	113.1	123.5	155.5	106.3	133.1	158.8	147.9
21	174.2	217.1	167.6	195.1	141.9	117.4	108.3	124.9	109.5	140.6		145.4
22	173.0	234.5	160.7	182.7	144.8	116.1	104.3	121.6	111.6	150.7	166.2	142.1
23	173.1	249.3	166.3	172.7	142.0	121.5	98.8	110.7	111.9	141.8	176.2	143.8
24	178.4	255.4	175.7	160.9	133.5	117.9	100.1	101.8	112.0	146.8	173.8	136.3
25	202.2	253.4	186.0	153.8	122.9	123.3	98.4	98.1	115.9	161.2	166.8	136.2
26	209.0	252.9	178.6	143.2	118.9	111.6	101.1	92.5	116.7	169.9	162.5	131.3
27	220.7	244.2	180.7	137.2	114.6	109.5	100.3	93.8	121.1	171.1	156.8	125.0
28	237.7	233.2	186.0	128.5	110.9	108.3	95.6	95.7	116.2	174.7	148.7	127.2
29	266.2	217.8	192.8	130.5	105.2	110.7	98.1	95.3	117.3	163.8	139.8	125.1
30	280.3		182.4	127.9	99.0	122.9	96.9	94.8	115.9		139.8	125.7
31	302.3		191.4		99.0		103.2	97.2		149.6		129.7

Means:

217.6 232.1 171.3 158.5 125.4 116.7 132.2 122.1 116.8 130.8 145.2 139.1

Annual Mean: 150.4

PENTICTON

PENTICTON

2800 MHZ 2000 UT

1992

Adjusted to 1 A.U.

SERIES C 2800 MHZ

DAY	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
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1	240.3	275.5	196.8	185.9	133.0	101.4	134.1	113.6	101.6	118.2	144.8	127.1
2	251.6	280.1	178.3	161.2	138.0	105.0	141.2	128.2	106.3	119.5	138.8	126.0
3	270.4	263.2	160.3	159.8	127.8	110.1	141.1	135.1	108.9	120.2	132.9	121.3
4	265.6	244.4	157.1	154.0	137.0	111.5	141.3	134.7	106.4	126.1	140.4	115.9
5	257.7	239.4	152.4	154.7	135.4	118.4	150.6	134.3	121.2	130.1	133.6	112.4

6	245.7	232.1	153.1	143.0	133.0	123.2	155.4	141.9	141.3	137.3	130.5	115.9
7	253.7	234.0	157.2	141.8	131.5	119.2	159.9	145.4	133.6	135.8	132.4	116.1
8	253.1	218.9	179.4	151.6	145.3	118.7	156.6	147.5	130.8	125.4	129.7	124.8
9	248.8	229.3	169.4	140.2	129.2	122.3	165.0	141.1	118.5	121.0	129.9	129.6
10	225.1	234.5	167.0	141.2	126.9	129.3	175.7	136.3	118.4	112.1	133.7	137.5

11	202.4	218.4	163.1	144.0	128.8	133.1	173.9	133.9	120.1	110.0	132.0	159.0
12	182.4	204.9	161.7	144.7	127.8	130.6	177.8	131.7	118.7	106.5	124.7	163.1
13	177.3	193.0	163.3	147.1	128.2	127.5	181.4	132.3	128.8	108.2	122.2	167.6
14	172.8	198.7	162.9	155.2	129.3	127.2	181.3	132.0	123.1	104.9	123.4	161.8
15	167.7	197.9	167.2	150.3	124.8	124.7	173.3	133.8	121.5	97.8	124.1	150.4

16	156.1	195.2	159.7	158.9	118.5	122.9	162.8	140.0	127.9	99.9	133.7	145.8
17	150.6	201.7	157.6	185.6	115.5	134.4	140.4	137.1	120.6	105.8	148.9	145.5
18	147.0	201.6	159.0	204.8	120.2	119.8	130.2	132.7	118.5	111.4	158.2	144.9
19	155.0	191.2	166.1	207.7	134.5	119.1	122.3	138.0	113.4	123.4	157.1	142.2
20	162.9	199.0	167.2	206.5	140.3	116.8	127.5	159.1	107.1	131.9	155.0	143.2

21	168.7	212.3	166.4	197.1	145.5	121.3	111.8	127.8	110.4	139.2		140.8
22	167.6	229.5	159.7	184.8	148.4	120.0	107.7	124.4	112.3	149.2	162.0	137.6
23	167.6	244.0	165.3	174.7	145.6	125.5	101.9	113.2	112.6	140.3	171.7	139.3
24	172.9	250.1	174.7	162.9	136.9	121.8	103.2	104.0	112.6	145.1	169.4	132.0
25	195.9	248.3	185.1	155.7	126.1	127.4	101.5	100.1	116.5	159.4	162.4	132.0

26	202.7	248.0	177.9	145.0	122.1	115.3	104.3	94.4	117.3	167.9	158.2	127.2
27	214.0	239.5	180.0	139.1	117.7	113.1	103.4	95.8	121.6	168.9	152.6	121.2
28	230.6	228.8	185.4	130.4	113.9	112.0	98.5	97.6	116.6	172.3	144.7	123.4
29	258.3	213.9	192.4	132.5	108.1	114.4	101.1	97.1	117.7	161.6	136.0	121.3
30	272.0		182.1	129.9	101.7	127.0	99.9	96.6	116.2		135.9	121.9

31	293.5		191.2		101.8		106.3	99.0		147.3		125.8
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Means:

210.6	226.5	169.6	159.7	128.2	120.4	136.5	125.1	118.0	129.9	142.0	134.6
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Annual Mean: 149.9

SUMMARY OF AVERAGE SOLAR AND GEOPHYSICAL INDICES FOR DECEMBER 1992

(Based on SGDB data released by the S.T.D.)

10.7 cm Solar Radio Flux: 138.95
Sunspot Number: 127.65
Boulder A-Index: 9.77
Planetary A-Index: 10.84
Background X-Ray Flux (1-8A): B4.46

Proton Fluence at > 1 MeV: 8.9069e+05
Total (non-averaged) Fluence at > 1 MeV: 2.5830e+07
Proton Fluence at > 10 MeV: 1.0886e+04
Total (non-averaged) Fluence at > 10 MeV: 3.1570e+05

Average Daily Deviation of the Boulder Magnetometer: 17.65 nT

Short Wave Fadouts (SWFs): 0.16
Total Number of SWFs during Interval: 5
SWF Durations: 1.87 minutes
Total Duration of SWFs during Interval: 58 minutes

Average Daily X-Ray Flux: B7.06
Average Neutron Counts: +0.05%
Average Daily PCA: -0.00 dB

** End of Monthly Report **

Date: Wed, 20 Jan 1993 04:55:15 GMT
From: panix!oppedahl@nyu.arpa
Subject: Radio Shack Business Band Radio
To: info-hams@ucsd.edu

In <1993Jan19.174127.25163@ms.uky.edu> johnr@f1.facts.uky.edu (john roberts) writes:

>I saw in their catalog that they have a 1 watt business band radio
>for sale, however it says that you need an FCC certification. I was
>wondering if anyone knows how to get such certification. Can I modify my
>Ham Radio to transmit on 152.165 (like the Radio Shack one uses) and then
>get whatever license I need? How much do these licenses cost?

You apply for a business band license, is how. I expect the radio comes with an application form.

If you modify your ham radio for the business band, you will probably have a radio that is not FCC type accepted for that band. Thus you cannot legally use it (except, of course, for emergency traffic). And the SWR with the rubber ducky antenna will be crummy since you will be so far from resonance with the antenna.

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Carl Oppedahl AA2KW (intellectual property lawyer)
30 Rockefeller Plaza
New York, NY 10112-0228
voice 212-408-2578 fax 212-765-2519

Date: 20 Jan 1993 11:00:25 GMT
From: noc.near.net!bigboote.WPI.EDU!wpi.WPI.EDU!gkd@uunet.uu.net
To: info-hams@ucsd.edu

References <1993Jan19.174420.25445@ms.uky.edu>, <C149D9.L1q@avalon.nwc.navy.mil>,
<1993Jan20.20708.22965@ms.uky.edu>
Subject : Re: DJ580T DSM question

In article <1993Jan20.20708.22965@ms.uky.edu> miles@ms.uky.edu (Stephen D. Grant) writes:

>erik@peewee.nwc.navy.mil (Erik van Bronkhorst Code 3814
Phone 939-1421) writes:

>

>>I recently purchased a 580 and I am very happy with it.
>>I would like to know if it is possible to use the digital signal
>>message receive capability to display touch tones transmitted
>>by another station. That is, without the other station sending
>>any specific DSQ (or even any at all).

If you put it in the DSQ mode and just enter all three digits in 'A' or 'b' as wildcards, I think it will take the first three touchtone digits which come over the air and replace the wildcards with those three digits. It was a while ago that I tried this, but I believe it worked this way.

Greg

End of Info-Hams Digest V93 #81
